

IN THE CLAIMS

The following is a complete listing of the claims, and replaces all earlier versions and listings. For the Examiner's convenience, all of the pending claims are set forth below, even though none are being amended herein.

1. (Previously Presented) A data processing apparatus comprising:

reception means for receiving a plurality of transmitting requests of object data;

first encryption means for encrypting at least a predetermined portion of the object data using first key data to produce encrypted object data;

generating means for generating seed information which allows said first key data to be obtained therefrom, wherein said seed information is generated after said reception means receives the transmitting requests;

multiplexing means for multiplexing said plurality of object data and the encrypted object data to generate a data stream; and

transmitting means for individually transmitting said seed information and said data stream, wherein said seed information is transmitted after said reception means receives the transmitting requests.

2. (Original) A data processing apparatus according to Claim 1, wherein said first key data periodically changes.

3. (Original) A data processing apparatus according to Claim 1, further comprising second encryption means for encrypting said first key data using second key data, wherein said first key data encrypted by said second encryption means is multiplexed by said multiplexing means.

4. (Original) A data processing apparatus according to Claim 3, further comprising third encryption means for encrypting said second key data using third key data, wherein the encrypted second key data is included in said seed information.

5. (Original) A data processing apparatus according to Claim 4, further comprising fourth encryption means for encrypting said third key data using fourth key data, wherein the encrypted third key data is included in said seed information.

6. (Previously Presented) A data processing apparatus according to Claim 1, further comprising coding means for individually coding said plurality of object data.

7. (Original) A data processing apparatus according to Claim 6, wherein said coding means performs coding by a coding method conforming to MPEG-4.

8. (Original) A data processing apparatus according to Claim 6, wherein said plurality of object data includes at least audio object data, video object data, and scene description information data for enabling the composing of said audio object data and said video object data.

9. (Original) A data processing apparatus according to Claim 1, wherein said data stream includes intellectual property management and protection (IPMP) data for protecting an intellectual property right of the encrypted object data.

10. (Previously Presented) A data processing apparatus comprising:

- transmitting means for transmitting a plurality of receiving requests of object data;
- receiving means for individually receiving a data stream and seed information, after said receiving requests are received, said data stream having been generated by the multiplexing of said plurality of object data including object data encrypted using first key data, said seed information allowing said first key data, which is required in descrambling the encrypted object data, to be obtained therefrom;
- demultiplexing means for demultiplexing said data stream received by said receiving means into individual object data;
- obtaining means for obtaining said first key data from said seed information received by said receiving means; and
- descrambling means for descrambling the encrypted object data using said first key data obtained by said obtaining means.

11. (Original) A data processing apparatus according to Claim 10, wherein each of said plurality of object data in said data stream received by said receiving means is coded.

12. (Original) A data processing apparatus according to Claim 10, further comprising decoding means for decoding the individual object data demultiplexed by said demultiplexing means and the object data descrambled by said descrambling means.

13. (Original) A data processing apparatus according to Claim 12, wherein the plurality of object data decoded by said decoding means includes at least image data, said data processing apparatus further comprising display means for displaying said image data.

14. (Original) A data processing apparatus according to Claim 10, wherein said first key data periodically changes.

15. (Original) A data processing apparatus according to Claim 10, wherein said data stream includes intellectual property management and protection (IPMP) data for protecting an intellectual property right of the encrypted object data.

16. (Original) A data processing apparatus according to Claim 11, wherein each of said plurality of object data in said data stream received by said receiving means is coded by a coding method conforming to MPEG-4.

17. (Original) A data processing apparatus according to Claim 10, wherein the data stream includes information associated with said first key data, and the

information associated with said first key data is generated by encrypting said first key data using second key data.

18. (Original) A data processing apparatus according to Claim 17, wherein said seed information includes information generated by encrypting said second key data using third key data.

19. (Original) A data processing apparatus according to Claim 18, wherein said seed information includes information generated by encrypting said third key data using fourth key data.

20. (Previously Presented) A data processing method comprising the steps of:

receiving a plurality of transmitting requests of object data;

encrypting at least a predetermined portion of the object data using first key data to produce encrypted object data;

generating seed information which allows said first key data to be obtained therefrom, wherein said seed information is generated after the transmitting requests are received;

multiplexing said plurality of object data and the encrypted object data to generate a data stream; and

individually transmitting said seed information and said data stream, wherein said seed information is transmitted after the transmitting requests are received.

21. (Original) A data processing method according to Claim 20, further comprising the step of encrypting said first key data using second key data, wherein the multiplexing step includes multiplexing the encrypted first key data.

22. (Original) A data processing method according to Claim 21, further comprising the step of encrypting said second key data using third key data, wherein the encrypted second key data is included in said seed information.

23. (Original) A data processing method according to Claim 22, further comprising the step of encrypting said third key data using fourth key data, wherein the encrypted third key data is included in said seed information.

24. (Original) A data processing method according to Claim 20, wherein said data stream includes intellectual property management and protection (IPMP) data for protecting an intellectual property right of the encrypted object data.

25. (Previously Presented) A data processing method comprising the steps of:

transmitting a plurality of receiving requests of object data;

individually receiving a data stream and seed information, after said receiving requests are received, said data stream having been generated by the multiplexing of said plurality of object data including object data encrypted using first key data, said

seed information allowing said first key data, which is required to descramble the encrypted object data, to be obtained therefrom;

demultiplexing said data stream received in said receiving step into individual object data;

obtaining said first key data from said seed information received in said receiving step; and

descrambling the encrypted object data using said first key data obtained in said obtaining step.

26. (Original) A data processing method according to Claim 25, wherein said data stream includes intellectual property management and protection (IPMP) data for protecting an intellectual property right of the encrypted object data.

27. (Original) A data processing method according to Claim 25, wherein the data stream includes information associated with said first key data, and the information associated with said first key data is generated by encrypting said first key data using second key data.

28. (Original) A data processing method according to Claim 27, wherein said seed information includes information generated by encrypting said second key data using third key data.

29. (Original) A data processing method according to Claim 28, wherein said seed information includes information generated by encrypting said third key data using fourth key data.

30. (Previously Presented) A computer readable storage medium storing program code for performing a data processing method comprising the steps of:

receiving a plurality of transmitting requests of object data;

encrypting at least a predetermined portion of the object data using first key data to produce encrypted object data;

generating seed information which allows said first key data to be obtained therefrom, wherein said seed information is generated after the transmitting requests are received;

multiplexing said plurality of object data and the encrypted object data to generate a data stream; and

individually transmitting said seed information and said data stream, wherein said seed information is transmitted after the transmitting requests are received.

31. (Previously Presented) A computer readable storage medium storing program code for performing a data processing method comprising the steps of:

transmitting a plurality of receiving requests of object data;

individually receiving a data stream and seed information, after said receiving requests are received, said data stream having been generated by the multiplexing of said plurality of object data including object data encrypted using first key data, said

seed information allowing said first key data, which is required to descramble the encrypted object data, to be obtained therefrom;

demultiplexing said data stream received in said receiving step into individual object data;

obtaining said first key data from said seed information received in said receiving step; and

descrambling the encrypted object data using said first key data obtained in said obtaining step.

32. (Previously Presented) A program product stored on a computer-readable storage medium, the program product embodying a software program comprising program code for performing a data processing method comprising the steps of:

receiving a plurality of transmitting requests of object data;

encrypting at least a predetermined portion of the object data using first key data to produce encrypted object data;

generating seed information which allows said first key data to be obtained therefrom, wherein said seed information is generated after the transmitting requests are received;

multiplexing said plurality of object data and the encrypted object data to generate a data stream; and

individually transmitting said seed information and said data stream, wherein said seed information is transmitted after the transmitting requests are received.

33. (Previously Presented) A program product stored on a computer-readable storage medium, the program product embodying a software program comprising program code for performing a data processing method comprising the steps of:

transmitting a plurality of receiving requests of object data;

individually receiving a data stream and seed information, after said receiving requests are received, said data stream having been generated by the multiplexing of said plurality of object data including object data encrypted using first key data, said seed information allowing said first key data, which is required to descramble the encrypted object data, to be obtained therefrom;

demultiplexing said data stream received in said receiving step into individual object data;

obtaining said first key data from said seed information received in said receiving step; and

descrambling the encrypted object data using said first key data obtained in said obtaining step.